

**AMENDMENTS TO THE CLAIMS**

Claims 1-2. (Cancelled).

3. **(Currently Amended)** A method for obtaining bone cells comprising culturing (a) bone stem cell(s) ~~existing in~~ collected from a human amniotic mesenchymal cell layer in a bone cell-differentiation medium.

4. **(Currently Amended)** A method for osteogenesis comprising transplanting bone stem cells ~~existing in~~ collected from a human amniotic mesenchymal cell layer into (a) bone defect(s).

5. (Cancelled).

6. **(New)** A method for obtaining bone cells comprising,  
collecting cells from a mesenchymal cell layer of human amnion,  
separating cells expressing antigen SB-10 from the collected cells, and  
culturing the cells expressing antigen SB-10 in a bone cell-differentiation medium,  
thereby producing bone cells, wherein the bone cells do not express antigen SB-10.

7. **(New)** The method of claim 6, wherein the separating step is carried out using a monoclonal antibody to SB-10 in a flow cytometry system.

8. **(New)** The method of claim 6, wherein the bone cells further express alkaline phosphatase.

9. **(New)** A method for osteogenesis comprising, transplanting bone cells produced by the method of claim 6 into a bone defect.

10. **(New)** A method for osteogenesis comprising,  
collecting cells from a mesenchymal cell layer of human amnion, and  
transplanting the collected cells into a bone defect, wherein the collected cells comprise stem cells and other amniotic cell types.

11. **(New)** The method of claim 10, wherein at least some of the collected cells express antigen SB-10.

12. **(New)** A method for osteogenesis comprising,  
collecting cells from a mesenchymal cell layer of human amnion,  
separating cells expressing antigen SB-10 from the collected cells, and  
transplanting the separated cells into a bone defect.